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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,130	04/29/2005	Toru Kawase	2005_0616A	4735
513 7590 12/10/2007 WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W.			EXAMINER	
			ABDIN, SHAHEDA A	
SUITE 800 WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER
	.,, _ 0 _ 20000 1020		2629	
				
			MAIL DATE	DELIVERY MODE
			12/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
	10/533,130	KAWASE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shaheda A. Abdin	2629				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 29 Ap	<u>oril 2005</u> .					
,						
. —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
·	4) Claim(s) 1,3 and 4 is/are pending in the application.					
4a) Of the above claim(s) is/are withdray	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3 and 4</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
	·					
Application Papers						
9) The specification is objected to by the Examine		Ale a Communication				
10)⊠ The drawing(s) filed on <u>09/19/2007</u> is/are: a)⊠						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) ☐ Some * c) ☐ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Response to Amendment

1. The amendment filed on 10/12/2007 has been entered and considered by examiner.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimizu et al. (US Patent No 5684499).
 - (1) Regarding claim 1:

Shimizu discloses a plasma display (in Fig. 5) comprising:

a plurality of display electrode pairs (Su11-Su 3m) that extend in a row direction and form a display line (column 9, lines 40-50),

a plurality of data electrodes (D1-Dk-1) disposed in the direction crossing the display electrode pairs (column 10, lines 18-23),

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discharge cells (i.e. display cell 8a) formed at intersections of the data electrodes (i.e. D1-Dk-1) and the display electrode pairs (see Fig. 5),

the driving method of the plasma display panel (see Fig. 18) comprising:

forming one field time period (time) including a plurality of subfields (i.e. 4 subfields) having at least a writing time period (e.g. C21-C23) and a sustaining time period (i.e. E21-E22) of an initialization time period (i.e. A2) the writing time period, and the sustaining time period (column 16, lines 51-68, and column 17, lines 1-10),

dividing each display electrode pair (i.e. (D1-Dk-1) into a plurality of blocks (i.e. block G, H and I) (column 16, lines 51-68),

Including one initialization time period (i.e. A2) in each of the plurality of blocks (block G, H, I) in one field (column 12, lines 16-45, and column 16, lines 51-68),

Note that Shimizu in Fig 23 teaches setting starting timings (i.e. TP1) of the subfields (4 subfields) of the blocks (i.e. scan blocks) to be shifted so that writing timings (i.e. TW1 and TW2) of two or more blocks of the plurality of blocks do not coincide with each other (see the illustration in Fig. 23 that writing times TW1 and TW2 do not coincide or overlap each other they are shifting by pre discharge periods i.e. TP2).

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setting a difference between starting timings (i.e. E21 and E22) of the sustaining time periods in adjacent block of the plurality of blocks (Blocks G, H and I) substantially equal the length of the writing time period (i.e. C22) in the adjacent blocks (i.e. the difference between starting point of sustain time E21 for block G and the starting point of sustain time E22 for block H is equal to the length of writing time period C22 of block H) (see Fig. 18).

(2) Regarding claim 3:

Shimizu teaches including one initialization time (i.e. A2) in only the first subfield (note that pre discharge period A2 is for first subfield of each block of adjacent blocks) (see Fig. 18).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu in view of Huang et al. (US Patent No: 6388643).

Note that part of the limitation of claim 4 is similar to claim 1 and teaches by Shimizu, but Shimizu does not teach that a plurality of scan electrode driving units individually corresponding to a plurality of blocks, the plurality of blocks being formed by dividing the display electrode pair;

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a plurality of sustain electrode driving units individually corresponding to a plurality of blocks, wherein the plasma display device is driven by the driving method of the plasma display panel.

However, Huang in the same field of endeavor teaches a plurality of scan electrode driving units (plurality of scan electrode driving unit at 15, fig 3) individually corresponding to a plurality of blocks, the plurality of blocks being formed by dividing the display electrode pair (3,, 2, fig. 3); and

a plurality of sustain electrode driving units (plurality of sustain electrode driving unit at 17) individually corresponding to a plurality of blocks, wherein the plasma display device is driven by the driving method of the plasma display panel (according to one of claim 1 to claim 3 as addressed above).

Therefore, it would have been obvious to a person of ordinary skill in the art to incorporate a plurality of sustain electrode driving units individually corresponding to a plurality of blocks, and

a plurality of sustain electrode driving units individually corresponding to a plurality of blocks as taught by Huang in to the display system of Shimizu so that a plurality of sustain electrode driving units could be individually corresponding to a plurality of blocks, wherein the plasma display device is driven by the driving

method of the plasma display panel. In this configuration the system would have improved brightness level of plasma display (Huang, column 3, lines 1-5).

Response to Arguments

6. Applicants arguments field on 10/12/2007 have been fully considered but they are not persuasive.

In view of amendment the reference of Shimizu et al. (US 5684499) has been added for new ground of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will

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the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Inquiry

8. Any inquiry concerning this communication should be directed to the examiner at (571) 270-1673 Monday- Friday 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chanh Nguyen, can be reached at (571) 272-7772.

Information regarding the status on an application may be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tool-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9799 (IN USA OR CANADA) or 571-272-1000.

Any response to this action should be mailed to:

Commissioner of patents and trademarks

Washington, D.C. 20231

Or fax to:

(703)872-9314 (for Technology Center 2600 only)

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12/07/2007	

CHANH D. NGUYEN
SUPERVISORY PATENT EXAMINER